



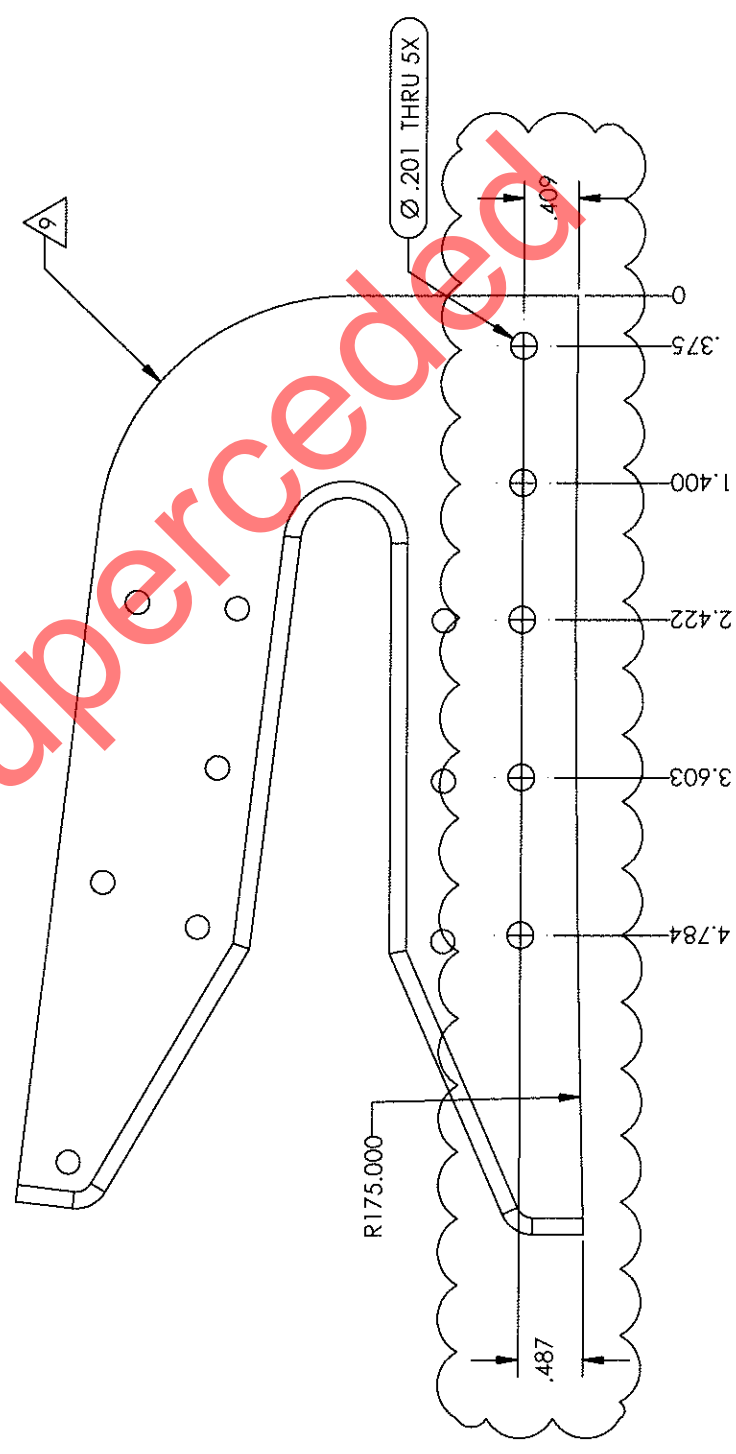


DART AEROSPACE		ENGINEERING CHANGE NOTICE NO. 05360		SHEET 1 OF 1	
APICAL INDUSTRIES, INC. dba DART AEROSPACE		DWG NO. 646.9700	REV: D	PREPARED BY J. BECKER	DATE: 03/24/16
TRANSACTION CODES (IC): A-ADD R-REVISE C-CREATE D-DELETE		DWG TITLE: CUTTER SUB ASSY			
APPROVED BY: 		ENGR: 	MFG: 	QC: 	EFF. CURRENT ORDER
REASON: REVISED DIMENSIONS		ECR: N/A			
ACTION ITEM: 1.					

SHEET 7, ZONE C3 IS:




Technical drawing of a mechanical part, likely a cutter sub assembly. The drawing shows a side view of a curved component with a flange. Dimensions are provided for various features: R175.000 (radius), .487 (width), 4.784 (length), 3.603 (length), 2.422 (length), 1.400 (length), .375 (width), .409 (width), and Ø .201 THRU 5X (hole specification). A 'Superseded' watermark is overlaid on the drawing.

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DOCUMENTS EFFECTED:	<input type="checkbox"/> PATTERN	<input type="checkbox"/> MDL	<input type="checkbox"/> INSTALL INSTRUCTIONS	<input type="checkbox"/> ICA	<input type="checkbox"/> FMS	<input type="checkbox"/> BOM
CHANGE CATEGORY	<input type="checkbox"/> MAJOR	<input checked="" type="checkbox"/> MINOR	DER REVIEW REQUIRED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	

Superceded

		ENGINEERING CHANGE NOTICE NO. 05345		SHEET 1 OF 1	
DWG NO. 646.9700		REV: D	PREPARED BY J. GARDINER	DATE: 03/15/16	
DWG TITLE: CUTTER SUB ASSY		ENGR: [Signature]	MFG: [Signature]	QC: [Signature]	EFF. CURRENT ORDER
TRANSACTION CODES (TC): A-ADD R-REVISE C-CREATE D-DELETE		REASON: REVISED NOTES			
APICAL INDUSTRIES, INC. dba DART AEROSPACE		EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.			

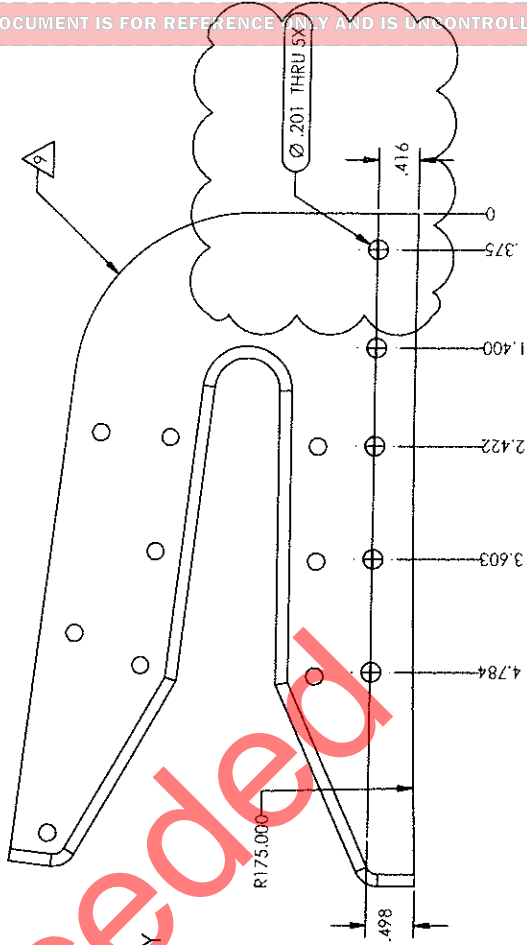
SHEET 1, ZONE A6 IS:

NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH IAW MPP-172 SECTION 2.1, 3.3 & 4.3.
- 3 MATERIAL: AISI 4200L STEEL
CONDITION: ANNEALED
POST PROCESS: HEAT TREAT TO 58-62 Rc ROCKWELL HARDNESS
- 4 FINISH: PRIME IAW MPP-172 SECTION 3.3; 1-2 MIL MAX
- 5 DEBURR AND BREAK ALL SHARP EDGES EXCEPT WHERE OTHERWISE NOTED
- 6 IDENTIFY IAW MPP-120
- 7 APPLY F/N 5 AS REQUIRED TO ALL FAYING SURFACES OF F/N 2 UPON ASSEMBLY
- 8 CUTTING EDGE INTENDED TO BE SHARP, DO NOT BREAK SHARP EDGE
- 9 ALL DIMENSIONS NOT SPECIFIED ARE CONTROLLED BY 646.9710.

IS

SHEET 7, ZONE C5 IS:



DOCUMENTS EFFECTED:	<input type="checkbox"/> PATTERN	<input type="checkbox"/> MDL	<input type="checkbox"/> INSTALL INSTRUCTIONS	<input type="checkbox"/> ICA	<input type="checkbox"/> FMS	<input type="checkbox"/> BOM	CHANGE CATEGORY <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	DER REVIEW REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Superceded

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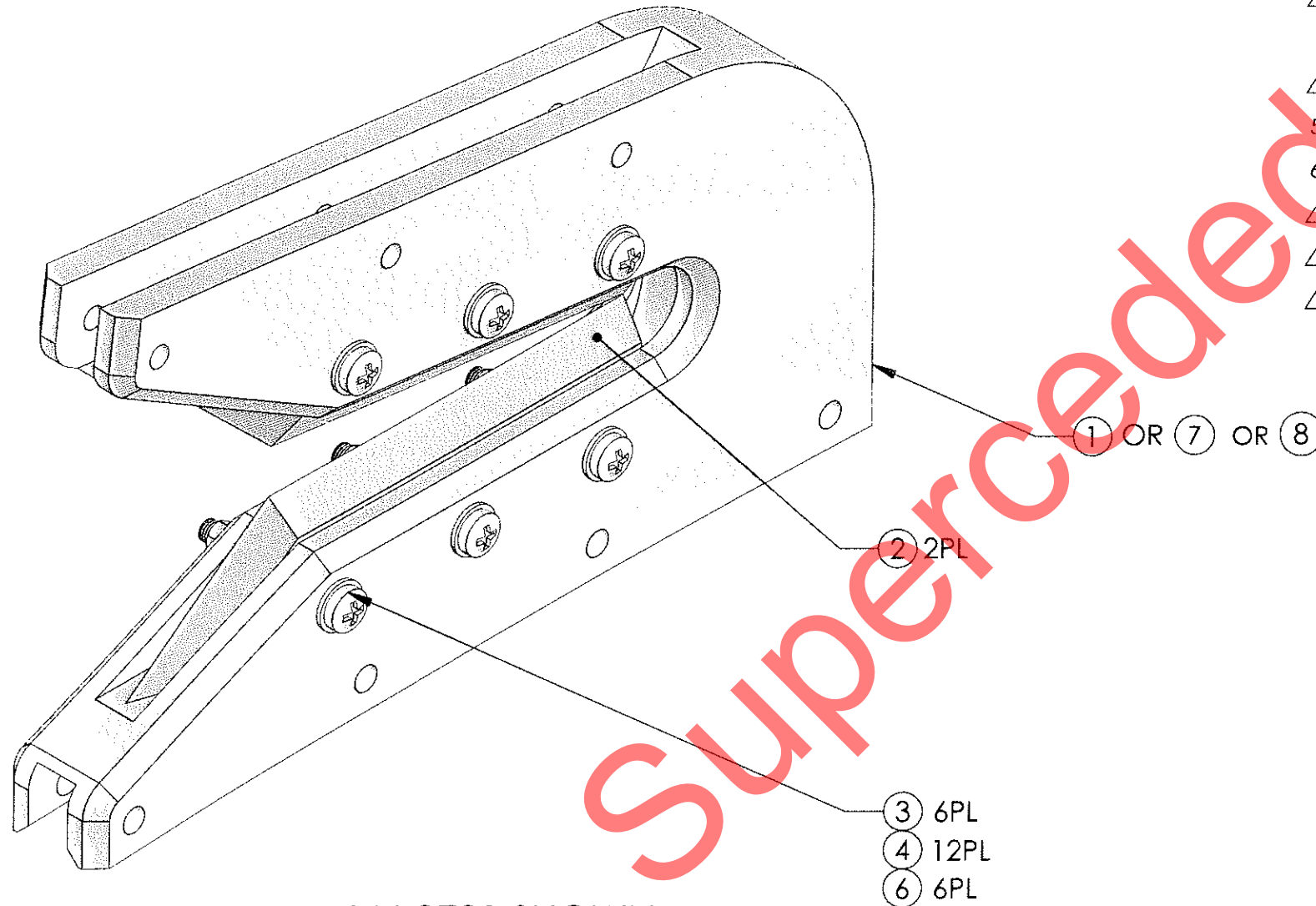
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION - PR2		N/C
NC	INITIAL RELEASE	03/29/09	P. BRAVO
A	INCORPORATED ECN 02744, 03838, 03912	06/06/13	P. BRAVO
B	INCORPORATED ECN 03967	07/03/13	P. BRAVO
C	INCORPORATED ECN 04039	08/09/13	P. BRAVO
D	INCORPORATED ECN 05329	02/26/16	P. BRAVO

NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH IAW MPP-172 SECTION 3.3 & 4.3.
- 3 MATERIAL: AISI A2 TOOL STEEL
CONDITION: ANNEALED
POST PROCESS: HEAT TREAT TO 58-62 Rc ROCKWELL HARDNESS
- 4 FINISH: PRIME IAW MPP-172 SECTION 3.3; 1-2 MIL MAX
- 5 DEBURR AND BREAK ALL SHARP EDGES EXCEPT WHERE OTHERWISE NOTED
- 6 IDENTIFY IAW MPP-120
- 7 APPLY F/N 5 AS REQUIRED TO ALL FAYING SURFACES OF F/N 2 UPON ASSEMBLY
- 8 CUTTING EDGE INTENDED TO BE SHARP, DO NOT BREAK SHARP EDGE
- 9 ALL DIMENSIONS NOT SPECIFIED ARE CONTROLLED BY 646.9710.



646.9701 SHOWN
646.9702 & 646.9703 TYP

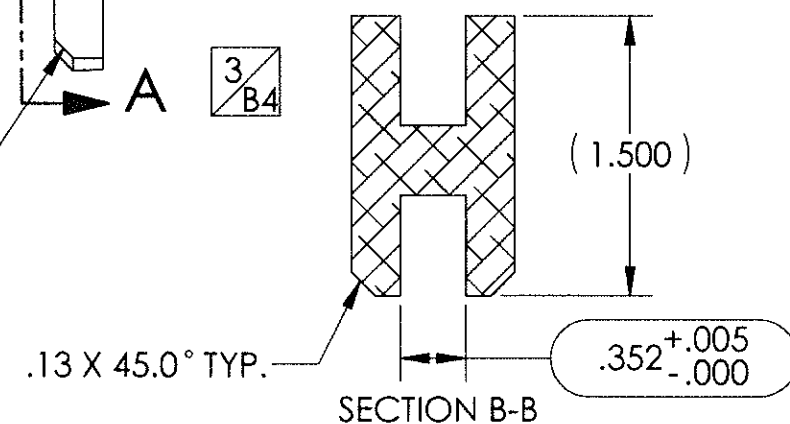
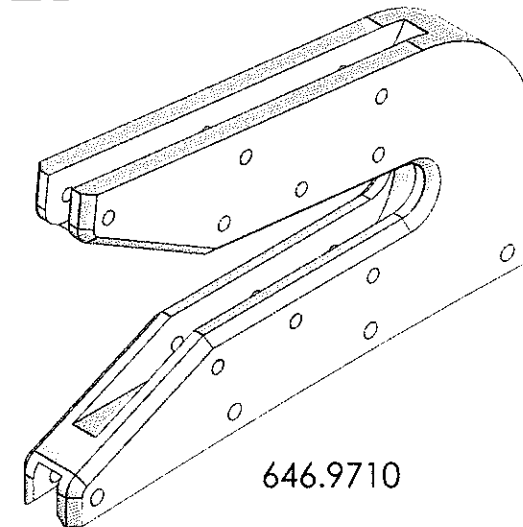
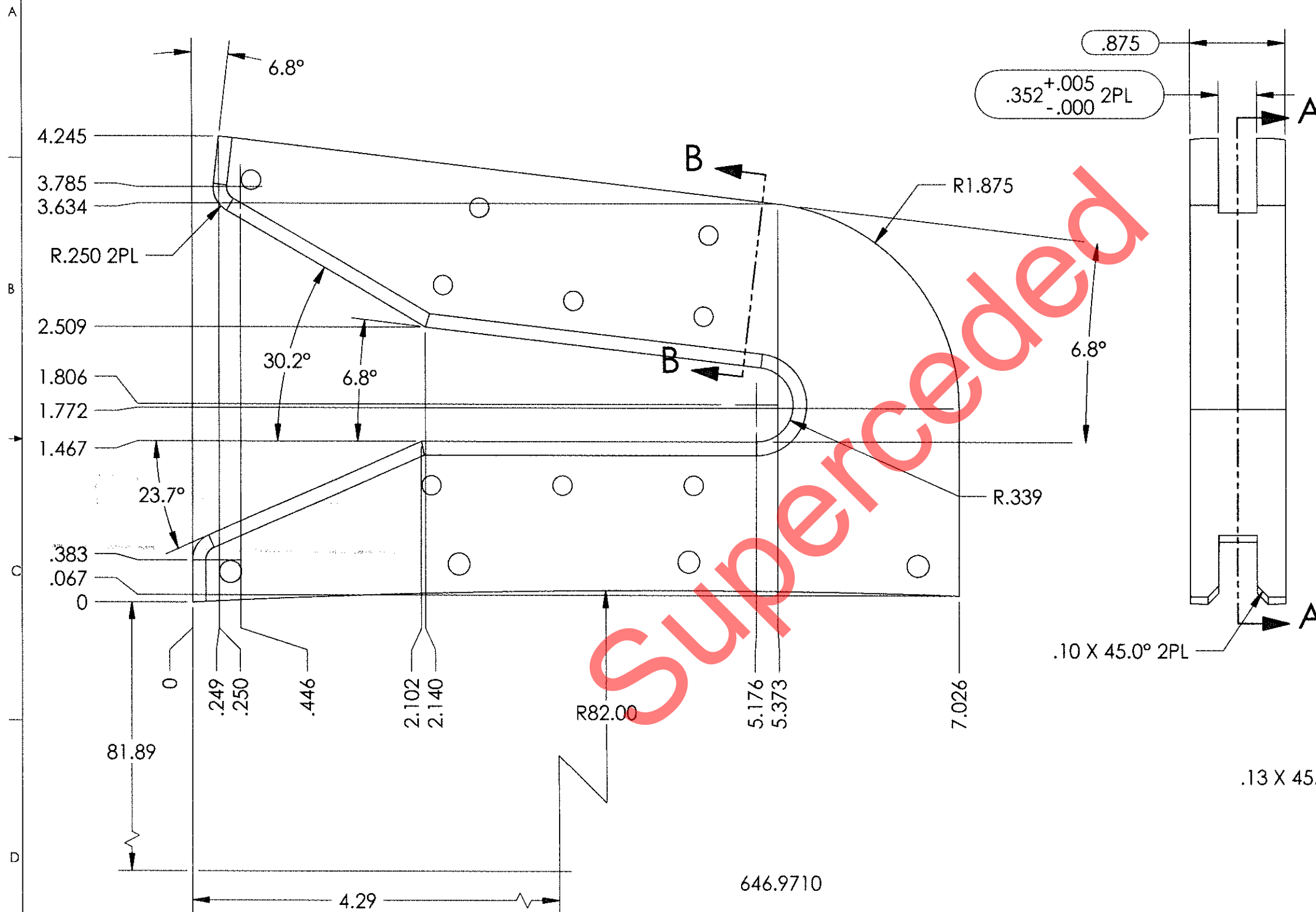
UNINCORPORATED ECN(S)

05345, 05360,

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	1		7	646.9712	BODY	△	△△
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A/R	A/R	A/R	5	601.2045	RTV, LOCTITE 598		
12	12	12	4	601.2764	WASHER	NAS1149FN832P	
6	6	6	3	601.2765	SCREW	MS27039-0819	
2	2	2	2	646.9711	BLADE	△	△
		1	1	646.9710	BODY		△
X				646.9703	CUTTER SUB ASSY		
	X			646.9702	CUTTER SUB ASSY		
		X		646.9701	CUTTER SUB ASSY		
.9703	.9702	.9701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
QTY				PARTS LIST			
NEXT ASSY (S)				ORIGINAL DATE (MO-DA-YR) 05-29-09			
646.9600				DRAWN BY R. ROSANO CHECKER P. BRAVO			
				DRAWING APPROVAL P. BRAVO 05-29-09			
				CONTRACT No.			
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
				DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300			
				CUTTER SUB ASSEMBLY			
				SIZE B	CAGE CODE 07M26	DWG. NO. 646.9700	REV. D
				SCALE NONE SHEET 1 OF 7			

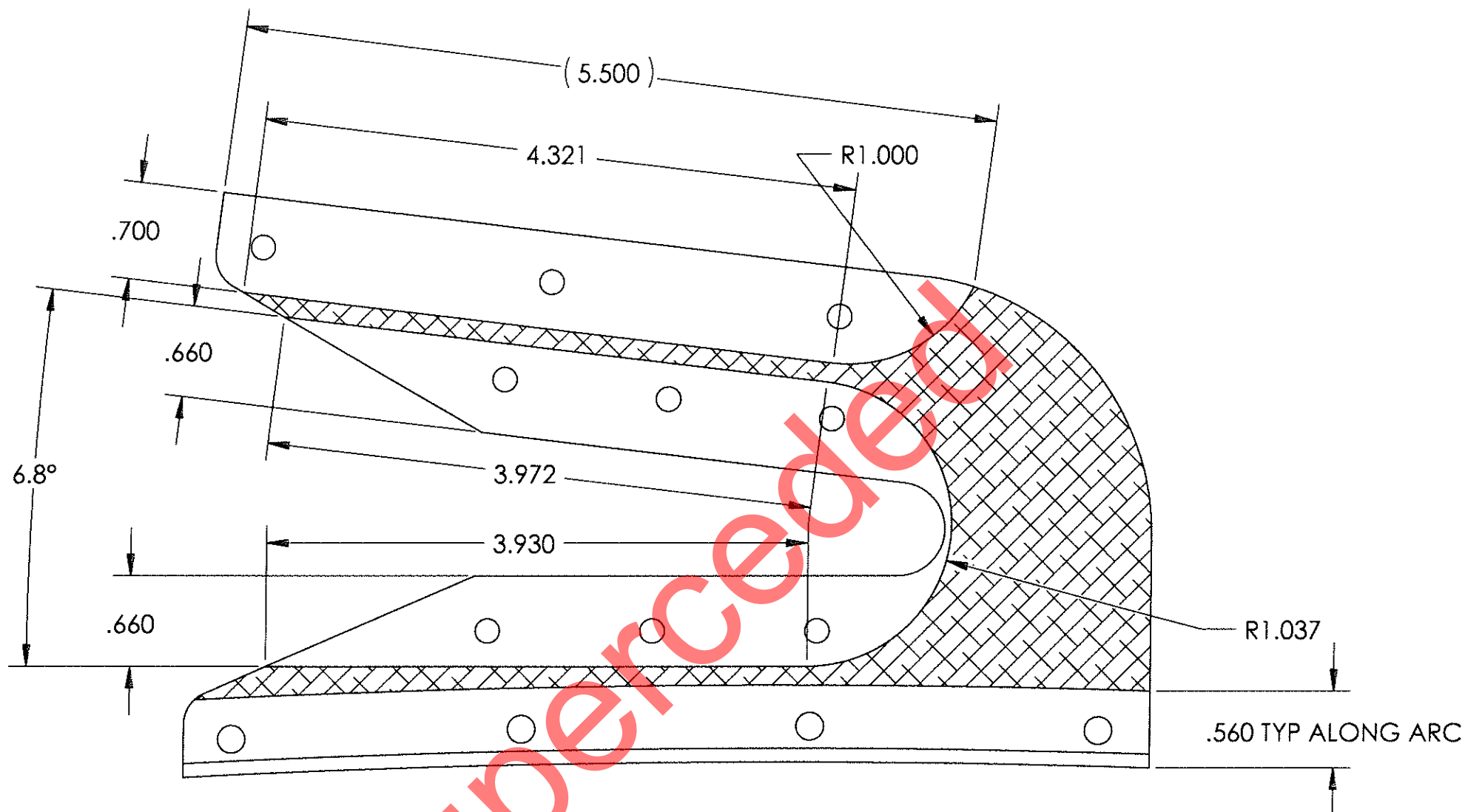
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ORIGINAL DATE (MO-DA-YR) 05-29-09	DART 3030 ENTERPRISE CT., SUITE A AEROSPACE VISTA, CA. 92081 APICAL INDUSTRIES, INC. (760)-724-5300 dba DART AEROSPACE		
DRAWN BY R. ROSANO	CHECKER P. BRAVO	CUTTER SUB ASSEMBLY	
DRAWING APPROVAL P. BRAVO 05-29-09	CONTRACT No.	SIZE B	REV. D
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		CAGE CODE 07MZ6	DWG. NO. 646.9700
		SCALE NONE	SHEET 2 OF 7

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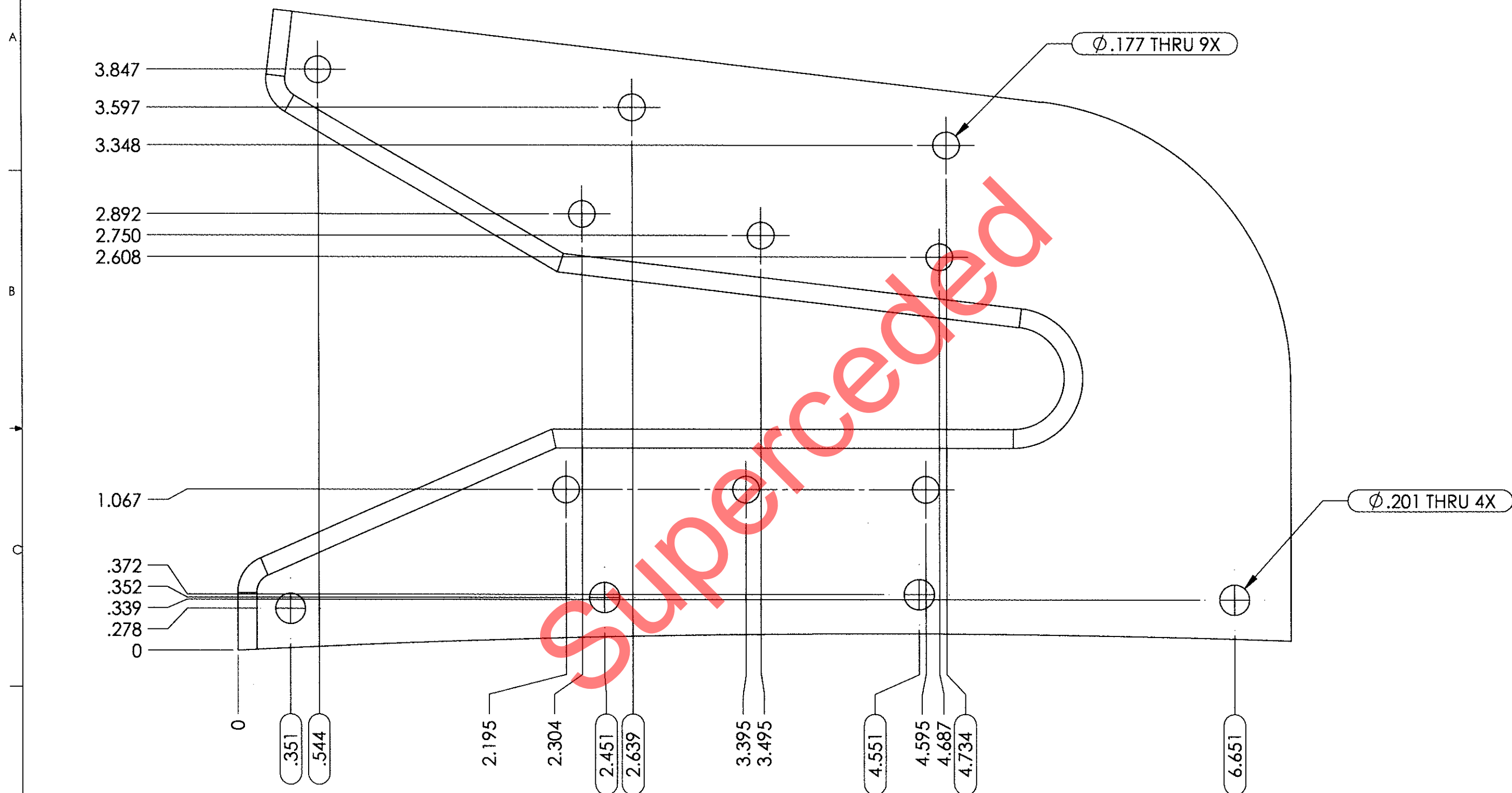
SECTION A-A $\frac{2}{C6}$

646.9710

ORIGINAL DATE (MO-DA-YR) 05-29-09		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 APICAL INDUSTRIES, INC. dba DART AEROSPACE	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 05-29-09		CUTTER SUB ASSEMBLY	
CONTRACT No.		SIZE B	REV. D
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07M26	DWG. NO. 646.9700
SCALE NONE		SHEET 3 OF 7	

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HOLE LOCATIONS +/- .002

646.9710

ORIGINAL DATE
(MO-DA-YR) 05-29-09
DRAWN BY
R. ROSANO
CHECKER
P. BRAVO
DRAWING APPROVAL
P. BRAVO
05-29-09
CONTRACT No.

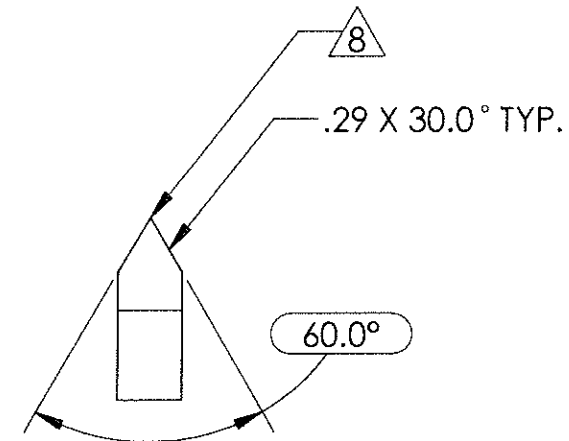
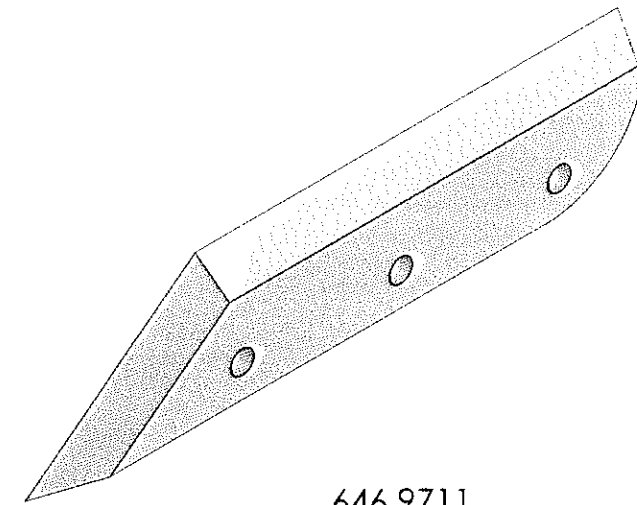
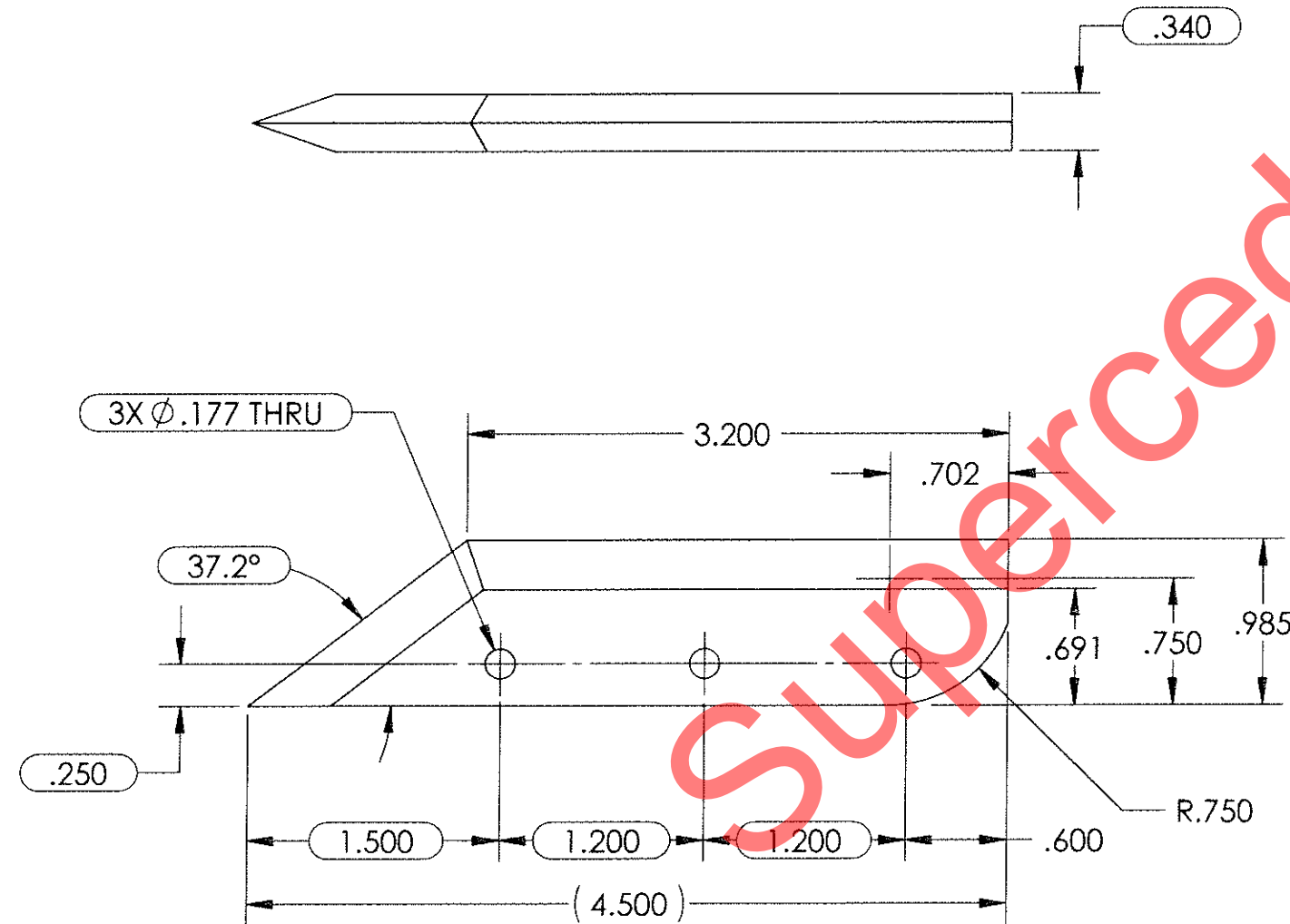
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS $\pm .01$
3 PLACE DECIMALS $\pm .005$
ANGLES $\pm .5^\circ$

DART AEROSPACE
APICAL INDUSTRIES, INC.
dba DART AEROSPACE
3030 ENTERPRISE CT.,
SUITE A
VISTA, CA. 92081
(760)-724-5300

CUTTER SUB ASSEMBLY

SIZE	CAGE CODE	DWG. NO.	REV.
B	07M26	646.9700	D
SCALE NONE			SHEET 4 OF 7

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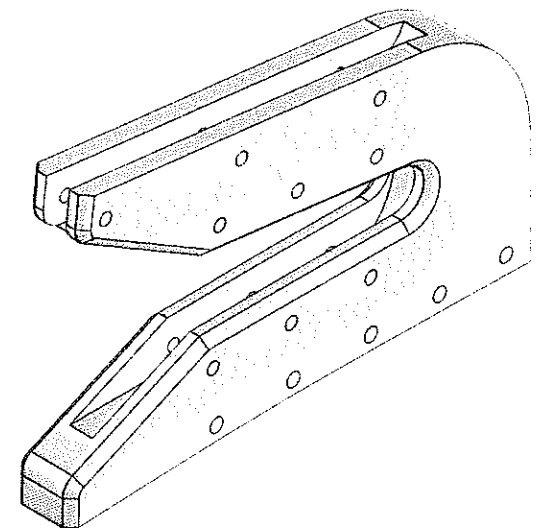
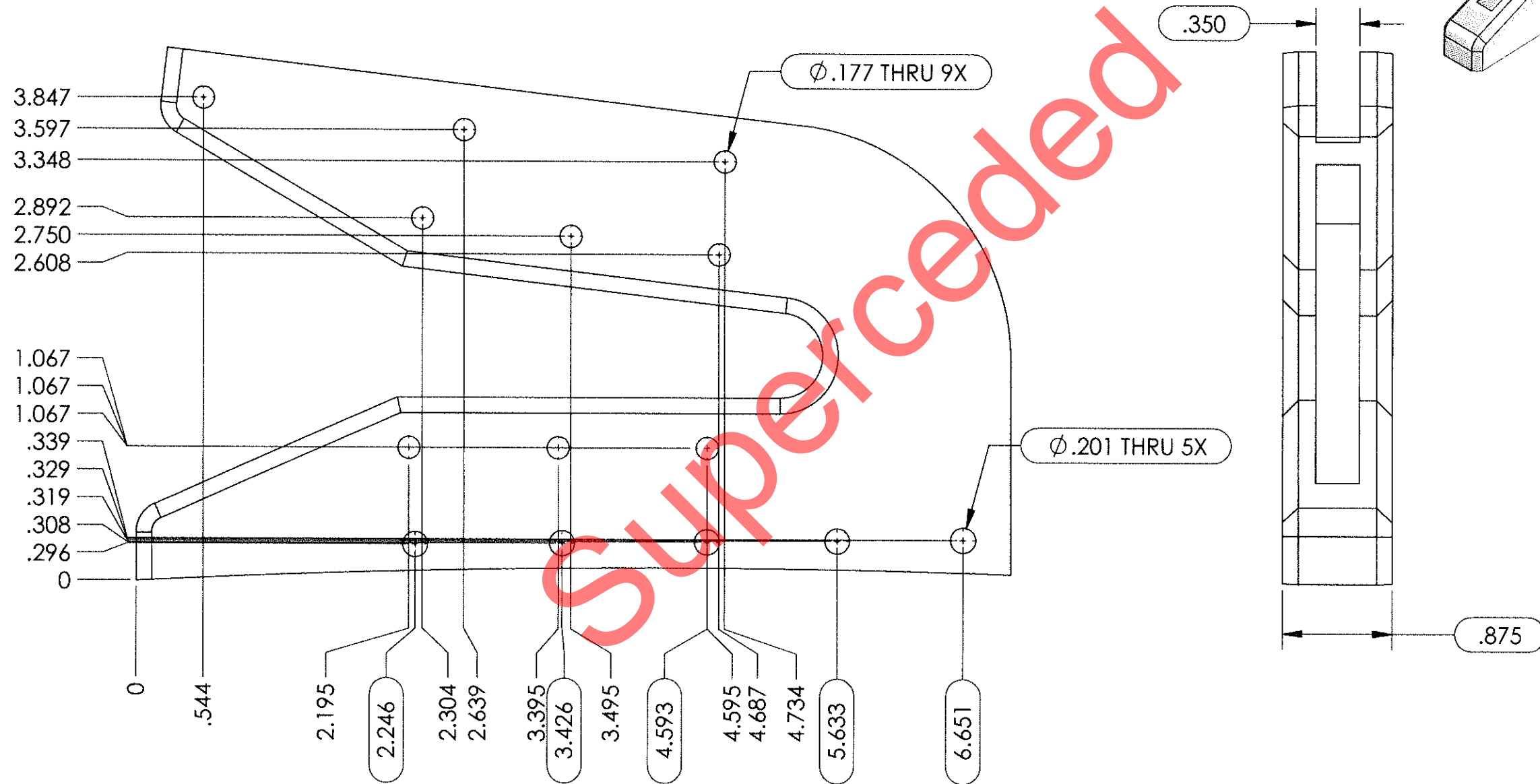
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ORIGINAL DATE (MO-DA-YR) 05-29-09		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 APICAL INDUSTRIES, INC. dba DART AEROSPACE	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 05-29-09		CUTTER SUB ASSEMBLY	
CONTRACT NO.		SIZE B	REV. D
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07MZ6	DWG. NO. 646.9700
		SCALE NONE	SHEET 5 OF 7

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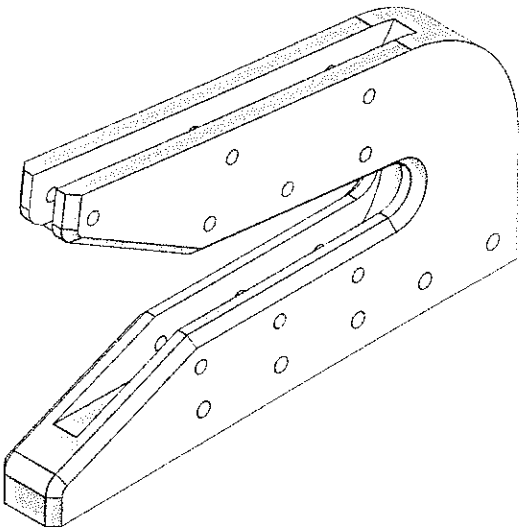


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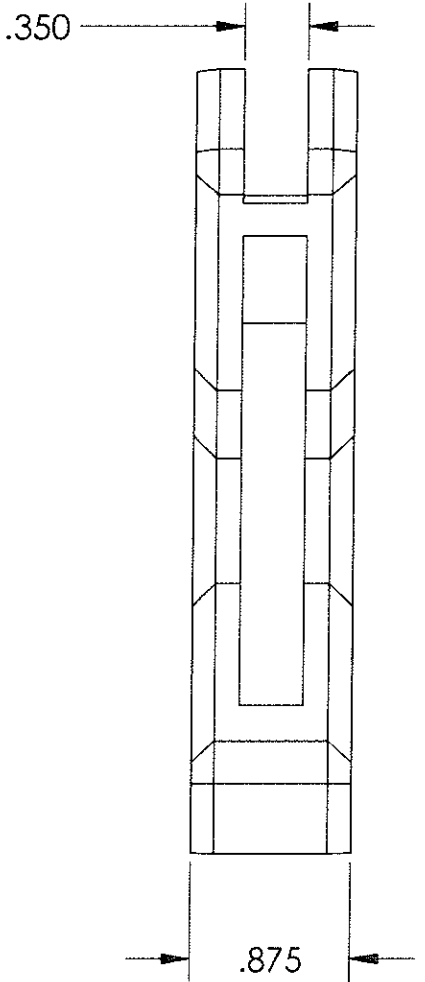
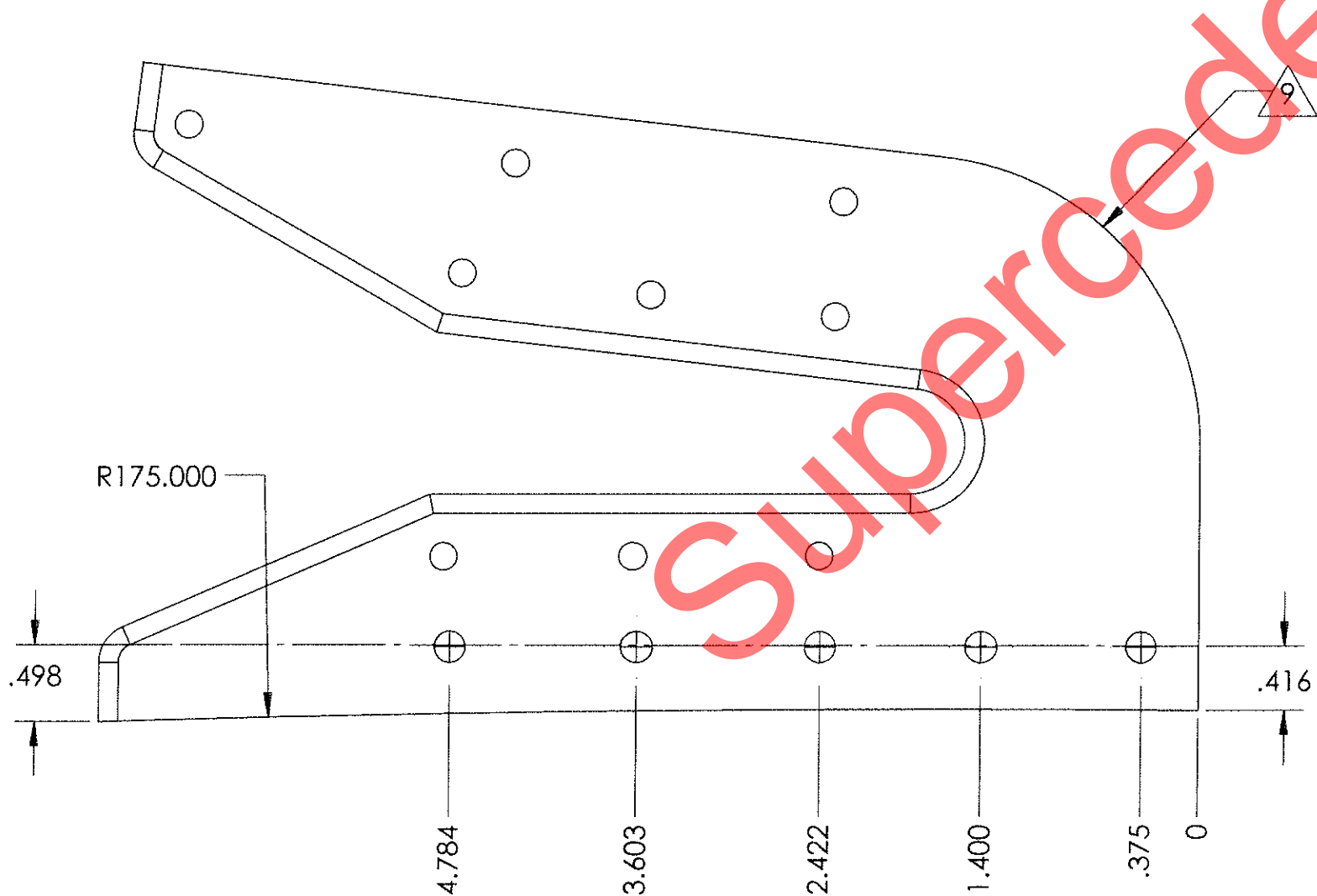
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ORIGINAL DATE (MO-DA-YR) 05-29-09		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 05-29-09		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		CUTTER SUB ASSEMBLY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$		SIZE B	REV D
		CAGE CODE 07MZ6	DWG. NO. 646.9700
		SCALE NONE	SHEET 6 OF 7

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ORIGINAL DATE (MO-DA-YR) 05-29-09		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 AFICAL INDUSTRIES, INC. dba DART AEROSPACE	
DRAWN BY R. POSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 05-29-09		CUTTER SUB ASSEMBLY	
CONTRACT No.		SEE CAGE CODE B 07MZ6	REV. D
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		DWG. NO. 646.9700	SHEET 7 OF 7
		SCALE NONE	

Superseded